

Title (en)

WELD TRAINING SYSTEMS WITH RESETTABLE TARGET TOOL IMAGES

Title (de)

SCHWEISSTRAININGSSYSTEME MIT RÜCKSETZBAREN ZIELWERKZEUGBILDERN

Title (fr)

SYSTÈMES DE FORMATION DE SOUDURE DOTÉS D'IMAGES D'OUTIL CIBLE RÉINITIALISABLES

Publication

**EP 4141845 A1 20230301 (EN)**

Application

**EP 22188231 A 20220802**

Priority

US 202117460862 A 20210830

Abstract (en)

Described herein are examples of weld training systems that show (e.g., transparent and/or translucent) "ghost" images of a welding tool on a display screen of a welding headgear to indicate target positions and/or target orientations of an actual welding tool. In some examples, the weld training systems may additionally "reset" the target tool image to a position closer to the actual welding tool if the target tool image gets too far away. The ability to "reset" the target tool image to a position closer to the actual welding tool may help in minimizing a risk that an operator 106 will overcompensate to try to catch up with the target tool image, which can be detrimental to the weld. Additionally, resetting the target tool image to a position closer the welding tool may allow an operator to better perceive and/or understand differences in orientation and/or other technique parameters.

IPC 8 full level

**G09B 19/24** (2006.01); **B23K 9/095** (2006.01); **B23K 9/32** (2006.01); **G09B 5/02** (2006.01); **G09B 9/00** (2006.01)

CPC (source: EP US)

**B23K 9/0953** (2013.01 - EP); **B23K 9/0956** (2013.01 - EP); **B23K 9/1056** (2013.01 - EP); **B23K 9/167** (2013.01 - EP); **B23K 9/173** (2013.01 - EP); **B23K 9/293** (2013.01 - EP); **B23K 10/00** (2013.01 - EP); **B23K 26/21** (2015.10 - EP); **B23K 26/34** (2013.01 - EP); **B23K 26/348** (2015.10 - EP); **G06F 3/14** (2013.01 - US); **G09B 5/02** (2013.01 - EP); **G09B 9/00** (2013.01 - EP US); **G09B 19/24** (2013.01 - EP US)

Citation (applicant)

US 202117209755 A 20210323

Citation (search report)

- [I] US 2021158724 A1 20210527 - BECKER WILLIAM JOSHUA [US], et al
- [I] US 2020254572 A1 20200813 - BECKER WILLIAM JOSHUA [US], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**EP 4141845 A1 20230301**; CA 3170159 A1 20230228; US 11699359 B2 20230711; US 2023066872 A1 20230302; US 2023290271 A1 20230914

DOCDB simple family (application)

**EP 22188231 A 20220802**; CA 3170159 A 20220811; US 202117460862 A 20210830; US 202318199545 A 20230519